

INTERNATIONAL SEARCH REPORT

Inte onal Application No
PC1/US2004/038059A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12N5/06 A61K38/17

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C12N A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category ^a | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| X | <p>STEWART JEFFREY D ET AL: "Characterization of proliferating human skeletal muscle-derived cells in vitro: differential modulation of myoblast markers by TGF-beta2." JOURNAL OF CELLULAR PHYSIOLOGY. JUL 2003, vol. 196, no. 1, July 2003 (2003-07), pages 70-78, XP002317537 ISSN: 0021-9541 the whole document</p> <p>-----</p> <p style="text-align: center;">-/-</p> | 1-24 |

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

23 February 2005

Date of mailing of the international search report

04/03/2005

Name and mailing address of the ISA
European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl
Fax: (+31-70) 340-3016

Authorized officer

Kaas, V

BEST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2004/038059

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: **16, 17, 21, 22**
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 16, 17, 21, 22 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
 No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/JS2004/038059

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| A | KAUFMAN S J ET AL: "Replicating myoblasts express a muscle-specific phenotype." PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. DEC 1988, vol. 85, no. 24, December 1988 (1988-12), pages 9606-9610, XP001205329 ISSN: 0027-8424 the whole document | 1-24 |
| A | MCLENNAN IAN S ET AL: "The transforming growth factor-betas: multifaceted regulators of the development and maintenance of skeletal muscles, motoneurons and Schwann cells." THE INTERNATIONAL JOURNAL OF DEVELOPMENTAL BIOLOGY. 2002, vol. 46, no. 4, 2002, pages 559-567, XP002317539 ISSN: 0214-6282 the whole document | 1-24 |
| A | ROUSSE S ET AL: "Transforming growth factor-beta inhibition of insulin-like growth factor-binding protein-5 synthesis in skeletal muscle cells involves a c-Jun N-terminal kinase-dependent pathway." 14 December 2001 (2001-12-14), THE JOURNAL OF BIOLOGICAL CHEMISTRY. 14 DEC 2001, VOL. 276, NR. 50, PAGE(S) 46961 - 46967 , XP002317541 ISSN: 0021-9258 the whole document | 1-24 |
| A | YAEGER P ET AL: "Characterization and phenotypic modulation of adult cardiac (Myo)fibroblasts for injection into infarcted heart tissue" TISSUE ENGINEERING, vol. 6, no. 6, December 2000 (2000-12), page 681, XP002317551 & THIRD BIENNIAL MEETING OF THE TISSUE ENGINEERING SOCIETY; ORLANDO, FLORIDA, USA; NOVEMBER 30-DECEMBER 03, 2000 ISSN: 1076-3279 the whole document | 1-24 |

BEST AVAILABLE COPY